Index to Authors—Volume 34, 1997

Current Microbiology
An International Journal
© Springer-Verlag New York Inc. 1997

Abebe, H.M., 71
Ahearn, Donald G., 212
Aleljung, Pär, 267
Allen, Mary M., 280
Ameyama, Minoru, 309
Aner, R., 33
Arhin, Francis F., 18
Arribas, José M., 61
Asensi, Victor, 61
Auffray, Yanick, 23, 284

Benizri, E., 297
Bennett, J.W., 127
Benoit, Valérie, 173
Berger, Jean–Luc, 186
Bert, Frédéric, 226
Biavasco, Francesca, 332
Boopathy, Ramaraj, 192
Bordallo, Carmen, 61
Borovsky, Z., 33
Boutibonnes, Philippe, 23, 284
Branger, Catherine, 226
Brhada, Fatiha, 167
Brokamp, Andre, 97, 103
Burke, Robert R., 55
Byrd, Wyatt, 149

Campbell, J., 303
Cánovas, David, 85
Carton, José A., 61
Castignetti, Domenic, 250
Chaudhary, Priya, 273
Chen, De-Qiao, 220
Childress, A.M., 127
Chow, J., 367
Clark, E., 71
Collins, James K., 244
Cortez, Néstor, 155
Cotta, M.A., 367
Coulton, James W., 18
Courtade, A., 297

Daigle, D., 127
Dao, My Lien, 49
Davis, Emily P., 192
De Troch, Paul, 27
de Wilde, Petra, 27
Degnan, Beverley A., 290
Del Giudice, Angela, 382
Del Giudice, Luigi, 382
Delécluse, Armelle, 348
Delgenes, J.P., 43
Demain, A.L., 199
Dennis, P. Julian, 238
Deobagkar, D.N., 273
DePina, Ana, 280
Devereux, Richard, 337
Diez–Gonzalez, Francisco, 162
Dijkerman, Rembrandt, 91
Dosselaere, Filip, 27

Enderlin, Carol S., 303, 340

Fang, A., 199
Fierer, Joshua, 61
Frère, Jacques, 23
Fukumoto, Fumiyoshi, 138

Garcia, Augusto F., 155
Gascón, Santiago, 61
Gautier, Michel, 180
Gilotra, Upma, 378
Grill, Jean Pierre, 79
Gromov, B., 122
Guckert, A., 297
Guezenec, Stéphane, 180
Guilién, F., 1
Gutiérrez–Corona, Felix, 133
Guzman, Antonio, 267
Guzmàn, Carlos A., 332

Hartings, Hans, 382
Hartke, Axel, 23, 284
Heard, Diana D., 55
Hiett, Kelli L., 360
Hines, Mark E., 337
Hirmo, Siiri, 267
Hooke, Anne Morris, 149
Hryniewicz, Waleria, 6
Hunter, Jean B., 162

Jackson, Rosalind J., 49
James, Brian W., 238
James, Jennylynd A., 186
James, M. Diane, 118

Kaimura, Takeshi, 309
Kamatani, Toshinori, 309
Kaneda, Shunko, 354
Kaplan, Hanna, 318
Keevil, C. William, 238
Keijers, Veerle, 27
Kerber, Norma L., 155
King, R.J., 71
Koenig, D.W., 199
Kolodny, Nancy H., 280
Koltovaya, Natalia, 382

Lambert–Zechovsky, Nicole, 226
Laplace, Jean–Marie, 284
Larsen, J.L., 38
Lawrence, Barbara A., 280
Le Rudulier, Daniel, 167
Lebrihi, Ahmed, 173
Ledeboer, Jeroen, 91
Lee, Byong H., 186
Lee, Kuo-Kau, 110
Lefebvre, Gérard, 173
Lim, Daniel V., 49
Lindow, S.E., 71
Liu, Ping-Chung, 110
Loomis, A.K., 127
Lortal, Sylvie, 180

Macfarlane, G.T., 290
Macfarlane, Sandra, 290
Majumdar, Debabrata, 258
Mamkaeva, K., 122
Manna, Filomena, 382
Manning, John, 192
Maradona, José A., 61
Martínez, A.T., 1
Martínez, M.J., 1
Massardo, Domenica R., 382
Mauchline, W. Stuart, 238
McElreath, Susan D., 67
McFadden, Bruce A., 205
Meinersmann, Richard J., 360
Miller, T.K., 303
Millière, Jean–Bernard, 173
Mills, Elaine L., 18
Minobe, Yuzo, 138
Mishra, S.K., 199
Moletta, R., 43
Moreau, France, 18
Mukai, T., 326
Muñoz, C., 1

Nadler, Theresa, 318
Nakamura, L.K., 233
Nasonova, E., 122
Nautiyal, Chandra Shekhar, 12
Nicholson, Wayne L., 133
Nieto, Joaquín J., 85
Nieuwkoop, Anthony J., 55
Novak, Hajdi, 267

Oda, Yuji, 230
Ohori, H., 326
Oikawa, Tadao, 309
Okitsu, Tadayuki, 314
Omolo, Edward O., 118
Op den Camp, Huub J.M., 91
Osaka, Hidekazu, 230
Osawa, Ro, 314
Osir, Ellie O., 118

Palas, J., 303
Parra, Francisco, 61
Pascu, Corina, 6
Pedersen, K., 38
Pedraza–Reyes, Mario, 133
Picard, C., 297
Pierson, D.L., 199
Pinevich, A., 122
Poggi, Marie–Christine, 167
Polse, Jennifer, 280
Pornruangwong, Srirat, 314
Prins, Rudolf A., 91
Pruzzo, Carla, 332
Pucheu, Norma L., 155
Pundle, Archana, 144
Purcell, Alexander H., 220
Purdy, Charles W., 244

Quigley, M.E., 290

Raleigh, Russell H., 244
Rehman, Abdur, 205
Rendueles, Paz, 61
Ringnér–Pantzar, Martina, 267
Rivas, Emilio A., 155
Rosso, Marie–Laure, 348
Rottem, S., 33
Rouault, Annette, 180
Russell, James B., 162
Rustrian, E., 43

Sato, Mamoru, 138
Schmacher, Marc M., 340
Schmidt, Friedrich, R.J., 97, 103
Schneider, François, 79
Schoeny, A., 297
Schwarze, Ricarda, 97, 103
Seidler, R.J., 71
Selitrennikoff, Claude P., 303, 340
Short, K.A., 71
SivaRaman, Hephzibah, 144
Soda, Kenji, 309
Solaiman, Daniel K.Y., 216
Somkuti, George A., 216
Srivastava, Sheela, 378
Straus, David C., 244
Suye, Shin-ichiro, 374

Taft, C., 303
Tahri, Khalid, 79
Tainter, Frank H., 67
Tarplay, Alacia, 360
Tentler, S., 303
Thomson, Jennifer A., 118
Thuault, Magalie, 284
Tiainen, T., 38
Toba, T., 326
Tonomura, Kenzo, 230

Urakami, Teizi, 230
Utt, Meeme, 267

Valle, Eulalia, 61
van der Drift, Chris, 91
Vanderleyden, Jos, 27
Vargas, Carmen, 85
Ventosa, Antonio, 85

Wadström, Torkel, 6, 267
Wang, Xiaohui, 212
Watts, Jeffery L., 244
Whitehead, T.R., 367
Willis, Stephanie G., 337
Wolf, Klaus, 382
Wood, R.L., 303
Wyche, James H., 258
Wyckoff, H.A., 367

Yamai, Shiro, 314
Yankofsky, Saul A., 318
Yao, Jun-Mei, 67
Yu, Shu-Ru, 110

Zareba, Tomasz W., 6

Index to Subjects—Volume 34, 1997

Current Microbiology
An International Journal
© Springer-Verlag New York Inc. 1997

Acanthamoeba castellanii, effect of bacteria on survival and growth of, 212
Acetic acid, bactericidal effect on *Bacillus subtilis*, 61
Acetobacter xylinum, purification and characterization of endo-β-glucanase from, 309
Acinetobacter sp., effect of volatile fatty acids on phosphate release and uptake by, 43
Actinobacillus pleuropneumoniae, immunization of mice with temperature-sensitive mutants of, 149
ADP, bactericidal effect on *Bacillus subtilis*, 61
Alcohol oxidase, from *Candida methanosorbosa* M-2003, purification and properties of, 374
Alginate encapsulation, of *Phanerochaete chrysosporium*, 127
Alkaline serine protease, exotoxin of *Vibrio alginolyticus* in Kuruma prawn, 110
Amoeboaphelidium protococcarum, molecular karyotypes in, 122
Anthranilate synthase, isolation of *Azospirillum brasilense trpE(G)* gene encoding, 27
Aphids, occurrence and transmission of facultative endosymbionts in, 220
Autolysin-defective mutants, of *S. aureus*, isolation and characterization of, 354
Autophosphorylation, of phosphoprotein of *Spiroplasma melliferum*, 33
Azospirillum brasilense, isolation and characterization of *trpE(G)* gene in, 27

Bacillus brevis, gramicidin S production in simulated microgravity by, 199
Bacillus pulvifaciens group II, reclassified as *Brevibacillus agri*, 233
Bacillus sphaericus, purification, substrate specificity, and active-site characterization of penicillin V acylase from, 144
Bacillus subtilis
bactericidal effect of ADP and acetic acid on, 61
spore photoproduct lyases operon (*splAB*) regulation during sporulation of, 133
Bacillus thuringiensis (L1-2) gene, encoding crystal protein active against *Glossina morsitans morsitans* and *Chilo partellus*, 118
Bacillus thuringiensis strains, distribution of insertion element IS*240* among, 348
Bacteroides fragilis strains, from feces, abscesses, blood, adhesiveness of, 332
Bacteroides ovatus, starch utilization by, 290
Bifidobacteria, effect of trihydroxyconjugated bile salt in cholesterol assimilation by, 79
Bifidobacterium adolescentis, collagen binding of, 306
Bovine respiratory tract disease (BRTD), serotyping of *P. haemolytica* and *P. multocida* isolates from lungs infected with, 244
Brevibacillus agri, reclassification of *Bacillus pulvifaciens* group II as, 233
Brevicin 27, purification and partial amino acid sequence of, 173
Burkholderia (Pseudomonas) cepacia, probed with ferripyochelin receptor A gene, 250
Butyryl–CoA dehydrogenase, NAD-independent, of *Clostridium acetobutylicum* P262, 162

Campylobacter jejuni, cloning, sequencing, and characterization of *ompH1* gene from, 360
Candida methanosorbosa M-2003, purification and properties of alcohol oxidase from, 374
Carbohydrate substrates, effect on production of (hemi)cellulolytic enzymes by *Neocallimastix* sp. strain L2, 91
Cellulolytic enzymes, effect of carbohydrate substrates on *Neocallimastix* sp. strain L2 production of, 91
Cellulomonas sp. NCIM 2353, cloned endoxylanase from, 273
Chickpea, assay for selection and characterization of rhizosphere-competent bacteria of, 12
Chilo partellus, crystal protein from *Bacillus thuringiensis* (L1-2) gene active against, 118
Chlorobium vibrioforme, molecular cloning and nucleotide sequence of porphobilinogen deaminase gene (PBG-D), 258
Cholesterol assimilation, by *Bifidobacterium breve* ATCC, effect of bile salts on, 79
Choline uptake, in Rhizobia strains from *Vicia faba* var. *major* and *Cicer arietinum* L nodules, 167
Cicer arietinum L, choline and glycine betaine uptake in Rhizobia strains from nodules of, 167
Clostridium acetobutylicum P262, NAD-independent lactate and butyryl–CoA dehydrogenases of, 162
Collagen fibrils, in amniotic membrane, effect of *Streptococcus mutans* on, 49
Collagens, adhesion of *Bifidobacterium adolescentis* strains to, 326
Copper resistance mechanism, in *Pseudomonas pickettii* US321, 378

Dehalogenases, isolated from 2,2-dichloropropionate-degrading soil bacteria, 103
Desulfovibrio desulfuricans, PFGE used to estimate genome size of, 337
Desulfovibrio propionicus, PFGE used to estimate genome size of, 337
Desulfovibrio vulgaris, PFGE used to estimate genome size of, 337
2,2-Dichloropropionate-degrading soil bacteria, isolation and characterization of dehalogenases from, 103
Dipteran toxicity, IS*240* present in *Bacillus thuringiensis*, 348
Discula destructiva isolates, double-stranded RNA in, 67

Endo-β-glucanase, purified from *Acetobacter xylinum*, 309
Endosymbionts, occurrence and transmission in aphids, 220
Endoxylanase, encoded by cloned gene from *Cellulomonas* sp. NCIM 2353 expressed in *E. coli*, 273
Enterococcus faecalis
binding of extracellular matrix proteins by, 6
effect of growth conditions and induced proteins on sodium hypochlorite stress in, 284
Enterococcus faecium, binding of extracellular matrix proteins by, 6
Epithelial cells, adhesiveness of *Bacteroides fragilis* strains to, 332
Escherichia coli
cloned endoxylanase from *Cellulomonas* sp. NCIM 2353 expressed in, 273
effect of survival and growth of *Acanthamoeba castellanii*, 212
role of Ser319 and Ser321 in isocitrate lyase catalysis by, 205
Extracellular matrix proteins, Enterococci strains binding of, 6

FALGPA, hydrolyzed by *Streptococcus mutans*, 49
Ferripyochelin receptor A (*fptA*) gene, *Pseudomonas* sp. probed using, 250

Glossina morsitans morsitans, crystal protein from *Bacillus thuringiensis* (L1-2) gene active against, 118
Glucan synthase-1 (*gs-1*) gene, *Neurospora crassa* growth inhibited by antisense construct against, 303
Glucoamylase, from *Lactobacillus amylovorus* ATCC 33621, purification of glucoamylase from, 186
Glycine betaine uptake, in Rhizobia strains from *Vicia faba* var. *major* and *Cicer arietinum* L nodules, 167
Gramicidin S production, by *Bacillus brevis* in simulated microgravity, 199

GroEL and GroES, induced in *Lactococcus lactis* subsp. *Lactis* by heat, acid, UV irradiation, 23

D,L-Halidohydrolases, homologous plasmids from soil bacteria encoding, 97
Halomonas elongata, hydroxylamine mutagenesis of, 85
Halomonas meridiana, hydroxylamine mutagenesis of, 85
Helicobacter pylori, effect of sulfatides on binding to gastric cancer Kato III cell line, 267
Hemolysin-neutralizing antibodies, induced in mice by temperature-sensitive mutants of *Actinobacillus pleuropneumoniae*, 149
Histidine kinase, encoded by osmotic-1 locus of *Neurospora crassa*, 340
Histidine utilization gene, from *Rhizobium fredii*, cloned and expressed in *Pseudomonas putida*, 55
Hydroxylamine mutagenesis, of *Halomonas elongata* and *H. meridiana*, 85

Ice nucleation active proteobacteria, artificially constructed, freezing nuclei in, 318
Iron, effect on enzyme activity of *Legionella pneumophila*, 238
Isocitrate lyase catalysis, by *E. coli*, role of Ser319 and Ser321, 205

Kato III cell line, sulfatides inhibit binding of *Helicobacter pylori* to, 267

L-(+) Lactate dehydrogenase (*ldh*) gene, from *S. bovis*, cloning, sequencing, and expression of, 367
Laccase, in *Pleurotus eryngii*, induction and characterization of, 1
Lactate dehydrogenase, NAD-independent, of *Clostridium acetobutylicum* P262, 162
Lactobacillus amylovorus ATCC 33621, purification of glucoamylase from, 186
Lactobacillus brevis SB27, purification and amino acid sequence of bacteriocin produced by, 173
Lactobacillus helveticus strains, typing and genome size estimation of, by pulsed field gel electrophoresis, 180
Lactococcus lactis subsp. *lactis*, chaperonin GroEL and cochaperonin GroES induced in, 23
Legionella pneumophila, grown in chemostat culture, iron acquisition mechanisms of, 238
LHIα (B870) polypeptide, associated with phospholipids in *Rhodobacter capsulatus* mutant membrane, 155
Lycorine, *S. cerevisiae* petite mutant resistance to correlated with suppressiveness, 382

Microgravity, simulated, gramicidin S production by *Bacillus brevis* in, 199
Molecular karotypes, in *Amoeboaphelidium protococcarum*, 122
Multilocus enzyme electrophoresis, compared with PFGE and RAPD in typing pyogenic streptococci, 226

Neissereia meningitidis strains, outer membrane proteins and serosubtyping with outer membrane vesicles from, 18
Neocallimastix sp. strain L2, growth on carbohydrate substrates and production of (hemi)-cellulolytic enzymes by, 91
Neurospora crassa
glucan synthase-1 (*gs-1*) antisense construct inhibits growth of, 303
putative histidine kinase encoded by osmotic-1 locus of, 340

Osmosensors, encoded by genes of *Neurospora crassa*, 340
Outer membrane protein (*ompH1*) gene, from *Campylobacter jejuni*, cloning, sequencing, and characterization of, 360

^{31}P NMR, metabolite identification and pH determination in *Synechocystis* sp. PCC 6308 using, 280
Paecilomyces lilacinus D218, purification and properties of poly(3-hydroxybutyrate) depolymerase from, 2230
Pasteurella haemolytica isolates, serotyping and enzyme characterization of, 244
Pasteurella multocida isolates, serotyping and enzyme characterization of, 244
pBR322 plasmid, transformation of, in *Pseudomonas avenae* and proline-auxotrophic mutant, 138
Penaeus japonicus, toxic extracellular protease of *Vibrio alginolyticus* in, 110
Penicillin V acylase, from *Bacillus sphaericus*, purification, substrate specificity, and active-site characterization of, 144
Phanerochaete chrysosporium, alginate encapsulation of, 127
Phosphorus, effect of VFA on release and uptake of, by *Acinetobacter* sp., 43
Pleurotus eryngii, induction and characterization of laccase in, 1
Poly(3-hydroxybutyrate) depolymerase, from *Paecilomyces lilacinus*, purification and properties of, 230
Porphobilinogen deaminase (*hemC*) gene, from *Chlorobium vibrioforme*, molecular cloning and nucleotide sequence of, 258
Pseudomonas aeruginosa
effect of survival and growth of *Acanthamoeba castellanii*, 212
probed with ferripyochelin receptor A gene, 250
Pseudomonas aureofaciens
probed with ferripyochelin receptor A gene, 250
pyochelin synthesis in, 250
Pseudomonas avenae, transformation of pBR322-derived plasmids in, 138
Pseudomonas fluorescens
probed with ferripyochelin receptor A gene, 250
pyochelin synthesis in, 250
Pseudomonas fluorescens NB13R, on chickpea rhizosphere, assay screening for, 12
Pseudomonas pickettii strain US321, plasmid-encoded sequestration of copper by, 378
Pseudomonas putida
cloning and expression of histidine utilization genes from *Rhizobium fredii*, 55
probed with ferripyochelin receptor A gene, 250
pyochelin synthesis in, 250
role in creation of xylE–iceC fusion, 71
Pseudomonas spp. NB49R, on chickpea rhizosphere, assay screening for, 12
Pseudomonas strains, maize root colonization by, 297
Pseudomonas syringae Cit7, expression and stability of chromosomally integrated *xylE* gene in, 71
Pseudomonas vesicularis, trinitrobenzene used as nitrogen source by, 192
Pulsed-field gel electrophoresis (PFGE)
compared with MLEE and RAPD in typing pyogenic streptococci, 226
genome sizes of sulfate-reducing bacteria estimated by, 337
typing and genome size estimation of *Lactobacillus helveticus* strains by, 180
Pyochelin, synthesis of, in *Pseudomonas* sp., 250
Pyogenic streptococci strains, comparison of PFGE, MLEE, and RAPD in differentiating, 226

Random amplified polymorphic DNA analysis, compared with MLEE and PFGE in typing pyogenic streptococci, 226
Rhizobium fredii hut gene, cloning and expression in *Pseudomonas putida* of, 55
Rhodobacter capsulatus LHII$^-$ mutant, LHIα polypeptide associated with phospholipids in membrane of, 155
Root colonization, of maize, by *Pseudomonas* strains, 297

Saccharomyces cerevisiae petite mutants, resistance to alkaloid lycorine and degree of suppressive of, 382
Serine 319 and 321, role in isocitrate lyase catalysis in *E. coli*, 205
Serosubtyping, of *Neisseria meningitidis* strains with outer membrane vesicles, 18
Serratia marcescens, effect of survival and growth of *Acanthamoeba castellanii*, 212
Sodium hypochlorite, effect of growth conditions and induced proteins on *Enterococcus faecalis* resistance to, 284

Soil bacteria
2,2-dichloropropionate-degrading, characterization of dehalogenases from, 103
encoding D,L-halidohydrolases, homologous plasmids from, 97
Spiroplasma melliferum, autophosphorylation of phosphoprotein of, 33
splA citron, effect on *splB–lacZ* fusion expression in *Bacillus subtilis*, 133
Staphylococcus aureus, isolation and characterization of autolysin-defective mutants of, 354
Starch, utilization by *Bacteroides ovatus* from human large intestine, 290
Stenotrophomonas maltophilia, effect of survival and growth of *Acanthamoeba castellanii*, 212
Streptococcus bovis, cloning, sequencing, and expression of L-(+) lactate dehydrogenase of, 367
Streptococcus mutans, collagenolytic activity in, 49
Streptococcus thermophilus, isolation and characterizaton of transcription signal sequences from, 216
Sulfate-reducing bacteria, PFGE used to determine genome sizes of, 337
Synechocystis sp. PCC 6308, ^{31}P NMR identification of metabolites and pH determination in, 280

TDH-related hemolysin (*trh*) gene, effect on urea hydrolysis and *tdh* gene expression in *Vibrio parahaemolyticus*, 314
Thermostable direct hemolysin (*tdh*) gene, suppressed production in *Vibrio parahaemolyticus*, 314
Transcription signal sequence, from *Streptococcus thermophilus*, isolation and characterization of transcription signal sequences from, 216
Trinitrobenzene, used as nitrogen source by *Pseudomonas vesicularis* in soil, 192
trpE(G) gene, in *Azospirillum brasilense*, isolation and characterization of, 27

Vibrio alginolyticus, in Kuruma prawn, toxic extracellular protease produced by, 110
Vibrio anguillarum serosubgroups, immunological reactivity and comparison of lipopolysaccharide profiles of, 38
Vibrio parahaemolyticus, effect of *trh* gene on urea hydrolysis and production of *tdh* gene in, 314
Vicia faba var. *major*, choline and glycine betaine uptake in Rhizobia strains from nodules of, 167
Volatile fatty acids concentration, effect on phosphate release and uptake by *Acinetobacter* sp., 43

xylE gene, expression and stability in *Pseudomonas syringae* strains, 71